

## WEST Search History

DATE: Sunday, June 02, 2002

Set Name Query  
side by side

Hit Count Set Name  
result set

*DB=USPT; PLUR=YES; OP=ADJ*

L19	l17 and good brittle stalk resistance	0	L19
L18	L17 and l12	0	L18
L17	L16 and (maize or corn)	7	L17
L16	above average adj5 southern leaf blight	7	L16
L15	l12 and very good yield	22	L15
L14	l12 and above average resistance to southern leaf blight	0	L14
L13	l12 and good brittle stalk resistance	0	L13
L12	L11 and (maize or corn)	28	L12
L11	good root lodging resistance	28	L11
L10	ph6jm and (maize or corn)	0	L10
L9	L8 and l6 and l4 and l2	0	L9
L8	L7 and (maize or corn)	82	L8
L7	aluerone color adj5 yellow	82	L7
L6	L5 and (maize or corn)	73	L6
L5	silk color adj5 pink	73	L5
L4	L3 and (maize or corn)	10	L4
L3	glume color adj5 purple	10	L3
L2	L1 and (maize or corn)	81	L2
L1	anther color adj5 pink	83	L1

END OF SEARCH HISTORY

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NEWS 1 Web Page URLs for STN Seminar Schedule - N. America  
NEWS 2 Jan 25 BLAST(R) searching in REGISTRY available in STN on the Web  
NEWS 3 Jan 29 FSTA has been reloaded and moves to weekly updates  
NEWS 4 Feb 01 DKILIT now produced by FIZ Karlsruhe and has a new update  
frequency  
NEWS 5 Feb 19 Access via Tymnet and SprintNet Eliminated Effective 3/31/02  
NEWS 6 Mar 08 Gene Names now available in BIOSIS  
NEWS 7 Mar 22 TOXLIT no longer available  
NEWS 8 Mar 22 TRCTHERMO no longer available  
NEWS 9 Mar 28 US Provisional Priorities searched with P in CA/CAPLUS  
and USPATFULL  
NEWS 10 Mar 28 LIPINSKI/CALC added for property searching in REGISTRY  
NEWS 11 Apr 02 PAPERCHEM no longer available on STN. Use PAPERCHEM2 instead.  
NEWS 12 Apr 08 "Ask CAS" for self-help around the clock  
NEWS 13 Apr 09 BEILSTEIN: Reload and Implementation of a New Subject Area  
NEWS 14 Apr 09 ZDB will be removed from STN  
NEWS 15 Apr 19 US Patent Applications available in IFICDB, IFIPAT, and IFIUDB  
NEWS 16 Apr 22 Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS  
NEWS 17 Apr 22 BIOSIS Gene Names now available in TOXCENTER  
NEWS 18 Apr 22 Federal Research in Progress (FEDRIP) now available  
NEWS 19 May 31 PCTFULL to be reloaded. File temporarily unavailable.

NEWS EXPRESS February 1 CURRENT WINDOWS VERSION IS V6.0d,  
CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP),  
AND CURRENT DISCOVER FILE IS DATED 05 FEBRUARY 2002

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FILE NAME ENTERED AT 14:11:17 N 22 JAN 01

=> file agricola biosis

FULL ESTIMATED COST

ENTRY      SESSION  
0.21      0.21

FILE 'AGRICOLA' ENTERED AT 16:13:27 ON 02 JUN 2002

FILE 'BIOSIS' ENTERED AT 16:13:27 ON 02 JUN 2002  
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=> s anther color (5w) pink  
L1            0 ANTER COLOR (5W) PINK

=> s glume color (5w) pink  
L2            0 GLUME COLOR (5W) PINK

=> s glume color (5w) purple  
L3            0 GLUME COLOR (5W) PURPLE

=> s cob color (5w) red  
L4            0 COB COLOR (5W) RED

=> s diplodia ear mold and (corn or maize)  
L5            0 DIPLODIA EAR MOLD AND (CORN OR MAIZE)

=> s southern leaf blight and (corn or maize)  
L6            69 SOUTHERN LEAF BLIGHT AND (CORN OR MAIZE)

=> s l6 and (resist? or toler?)  
L7            21 L6 AND (RESIST? OR TOLER?)

=>

=> d 1-10 ti

L7    ANSWER 1 OF 21    AGRICOLA  
TI    Reactions of open-pollinated sweet **corn** cultivars to Stewart's  
      wilt, common rust, northern leaf blight, and **southern**  
      **leaf blight**.

L7    ANSWER 2 OF 21    AGRICOLA  
TI    Genetic control of **resistance** to Bipolaris maydis: one gene or  
      two genes.

L7    ANSWER 3 OF 21    AGRICOLA  
TI    Seedling test of **resistance** to **southern leaf**  
      **blight** in **corn** under greenhouse condition. I. Punch  
      inoculation technique and an evaluation method [Bipolaris maydis].

L7    ANSWER 4 OF 21    AGRICOLA  
TI    Seedling test of **resistance** to **southern leaf**  
      **blight** in **corn** under greenhouse condition. II.  
      Evaluation of **corn** lines and varieties .

L7    ANSWER 5 OF 21    AGRICOLA  
TI    Mutagenesis-based research aimed at obtaining **resistance** to [  
      **southern leaf blight**] Helminthosporium maydis,

II    Expression of manogenic embryonic lesion **resistance** to  
      Helminthosporium maydis [**southern leaf blight**  
      ] in **corn**

L7 ANSWER 7 OF 21 AGRICOLA  
 TI Diallel analysis for reaction of eight **corn** inbreds [**southern leaf blight**] to Helminthosporium maydis race T [**Resistance**, breeding, combining ability]

L7 ANSWER 8 OF 21 AGRICOLA  
 TI Two cytological responses in **corn resistant** to Helminthosporium maydis. [**Southern leaf blight**]

L7 ANSWER 9 OF 21 AGRICOLA  
 TI Bioassay for distinguishing between **corn** seedlings **resistant** susceptible to **southern leaf blight**

L7 ANSWER 10 OF 21 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.  
 TI **Corn** cDNA encoding **southern leaf blight resistance**.

=> s l7 and inbred

L8 2 L7 AND INBRED

=> d 1-2 ti

L8 ANSWER 1 OF 2 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.  
 TI Development and characteristics of new **maize** parental line "Na23".

L8 ANSWER 2 OF 2 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.  
 TI Identification of quantitative trait loci (QTLs) for **resistance** to two foliar diseases in a mapping population of recombinant **inbred** (RI) lines of **maize**.

=> d 1-2 ab

L8 ANSWER 1 OF 2 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.  
 AB A new **maize** parental line, "Na23", was developed at the National Grassland Research Institute. "Na23" was registered as "Nourin Kou Oya No. 48 of **Maize**" by the Ministry of Agriculture, Forestry and Fisheries of Japan in 1998. "Na23" was selected from (Oh43HtXH84)XH84. Oh43Ht and H84 belong to a dent group in the United States. The main breeding objectives were upright leaf angle and the **resistance** to **southern leaf blight** (*Bipolaris maydis*), sheath blight (*Rizoctonia solani*) and lodging. Selection and selfing were carried out continuously for six generations. The silking time of "Na23" is five days later than that of "Mol7Ht" and "H84", and "Na23" is classified into a late-extremely late maturity group in Honshu, Japan. The **resistance** to **southern leaf blight** is high and intermediate to sheath blight. However the lodging **resistance** is slightly lower than that of "Mol7Ht" and "H84". It has 16 rows of kernels on each ear. The seed yield was about 40 kg/a. "Na23" has a long stalk length, upright leaves and is tall in ear height. "Na23" shows high combining ability with **inbred** lines derived

=====

=> d 1 2 so

L8 ANSWER 1 OF 2 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.  
SO Sochi Shikenjo Kenkyu Hokoku, (March, 2001) No. 60, pp. 25-32. print.  
ISSN: 0385-0196.

L8 ANSWER 2 OF 2 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.  
SO Phytopathology, (1996) Vol. 86, No. 11 SUPPL., pp. S59.  
Meeting Info.: Annual Meeting of the American Phytopathological Society,  
North Central Division Indianapolis, Indiana, USA July 27-31, 1996  
ISSN: 0031-949X.

=> s root lodging and (corn or maize0  
UNMATCHED LEFT PARENTHESIS 'AND (CORN'  
The number of right parentheses in a query must be equal to the  
number of left parentheses.

=> s root lodging and (corn or maize)  
L9 116 ROOT LODGING AND (CORN OR MAIZE)

=> s l9 and resistance to root lodging  
L10 7 L9 AND RESISTANCE TO ROOT LODGING

=> d 1-7 ti

L10 ANSWER 1 OF 7 AGRICOLA  
TI Gene expression profiling of two related **maize** inbred lines with  
contrasting **root-lodging** traits.

L10 ANSWER 2 OF 7 AGRICOLA  
TI An improved technique for measuring resistance to root pulling in  
**maize**.

L10 ANSWER 3 OF 7 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.  
TI Gene expression profiling of two related **maize** inbred lines with  
contrasting **root-lodging** traits.

L10 ANSWER 4 OF 7 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.  
TI GENETIC ANALYSIS OF **RESISTANCE TO ROOT-LODGING**  
IN **MAIZE** BASED UPON DISCRIMINANT FUNCTION OF BIOMETRICAL TRAITS.

L10 ANSWER 5 OF 7 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.  
TI AN IMPROVED TECHNIQUE FOR MEASURING RESISTANCE TO ROOT PULLING IN  
**MAIZE**.

L10 ANSWER 6 OF 7 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.  
TI RELATIONSHIP OF VERTICAL ROOT PULL RESISTANCE AND FLOWERING IN  
**MAIZE** ZEA-MAYS.

L10 ANSWER 7 OF 7 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.  
TI OCCURRENCE OF FUSARIUM-SPP IN ROOTS AND STALKS OF SYMPTOMLESS **CORN**  
PLANTS DURING THE GROWING SEASON.

=> s l10 and inbred  
L11 2 L10 AND INBRED

Gene expression profiling of two related **maize** inbred  
lines with contrasting **root lodging** traits.

L11 ANSWER 2 OF 2 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.  
TI Gene expression profiling of two related **maize** inbred

lines with contrasting **root-lodging** traits.

=> d 1-2 ab

L11 ANSWER 1 OF 2 AGRICOLA

AB To assist breeding for increased **resistance to root lodging** in **maize**, an attempt was made to identify genes that are associated with **root lodging** by profiling mRNA expression from two inbreds with contrasting root-related traits. These two inbreds were derived from a common F2 pool, selfed for several generations and showed 75% relatedness based on 106 genetic markers. Under field conditions, the two inbreds exhibited significant differences in root morphology and **resistance to root lodging**. Whole root tissue was collected at two developmental stages from **inbred** 100 and 101 grown in 2 years. RNA was isolated from both the V8 and V12 stages, a few weeks prior to flowering. The RNA samples from the 1997 growing season were analysed by GeneCalling analysis, an open-ended mRNA profiling method. From over 13500 cDNA fragments detected from each of the V8- and V12-stage samples, 229 and 325 cDNA fragments, respectively, showed greater than 2-fold differences between the two **inbred** lines. A total of 69 cDNA fragments that showed 2-fold or greater differences for both **inbred** lines were observed at both developmental stages. The gene identity and expression differences of several cDNA fragments were determined and confirmed by RNA gel blot analysis. Two genes out of five identified were homologous to a cytochrome P450 and the impedance-induced protein, both showing high levels of expression in the roots of lodging resistant lines and low levels in the sensitive lines. These data provide the first clues of genes expressed in the roots during the formative stages of root development associated with **root-lodging** resistance.

L11 ANSWER 2 OF 2 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

AB To assist breeding for increased **resistance to root lodging** in **maize**, an attempt was made to identify genes that are associated with **root lodging** by profiling mRNA expression from two inbreds with contrasting root-related traits. These two inbreds were derived from a common F2 pool, selfed for several generations and showed 75% relatedness based on 106 genetic markers. Under field conditions, the two inbreds exhibited significant differences in root morphology and **resistance to root lodging**. Whole root tissue was collected at two developmental stages from **inbred** 100 and 101 grown in 2 years. RNA was isolated from both the V8 and V12 stages, a few weeks prior to flowering. The RNA samples from the 1997 growing season were analysed by GeneCalling analysis, an open-ended mRNA profiling method. From over 13500 cDNA fragments detected from each of the V8- and V12-stage samples, 229 and 325 cDNA fragments, respectively, showed greater than 2-fold differences between the two **inbred** lines. A total of 69 cDNA fragments that showed 2-fold or greater differences for both **inbred** lines were observed at both developmental stages. The gene identity and expression differences of several cDNA fragments were determined and confirmed by RNA gel blot analysis. Two genes out of five identified were homologous to a cytochrome P450 and the impedance-induced protein, both showing high levels of expression in the roots of lodging resistant lines and low levels in the

1 1 2 SC

L11 ANSWER 1 OF 2 AGRICOLA